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OM protein - protein search, using sw model
Run on: March 7, 2005, 06:55:26 ; Search time 106.895 Seconds
(without alignments)
Scoring table: BLOSUM62

Title: US-09-939-537-33
Perfect score: 1385

Sequence: 1 EPKSCDKHTCPPCPAPELL.....DETCAEADGELDGLWTTDP 254

Scanned: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Maximum Match 0%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:
1: geneseqP1990s:
2: geneseqP1990s:
3: geneseqP2000s:
4: geneseqP2001s:
5: geneseqP2001s:
6: geneseqP2003as:
7: geneseqP2003bs:
8: geneseqP2004s:
*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description	RESULT 1
1	1385	100.0	254	2 ARB8941	ARR8941
2	1379	99.6	254	2 ARB8667	ARR8941 standard; peptide; 254 AA.
3	1358	98.1	400	7 ADD13790	XX
4	1356	97.9	544	8 AD66914	AC
5	1356	97.9	544	8 AD66916	XX
6	1356	97.5	539	8 ADR6016	XX
7	1345.5	97.1	401	7 ADD13781	DT
8	1271	91.8	441	3 AAB28692	XX
9	1266	91.8	448	3 AAB28694	DT
10	1265	91.3	577	8 ADR10259	26-SEP-1996 (first entry)
11	1263	91.1	502	8 ADR97493	XX
12	1260	91.0	581	4 AAB81972	XX
13	1260	91.0	582	4 AAB81987	XX
14	1260	91.0	582	4 AAB81991	XX
15	1260	91.0	583	4 AAB83156	XX
16	1259.5	90.9	697	8 ADD07403	XX
17	1259.5	90.9	697	8 ADD2180	PT
18	1258	90.8	232	2 AAB26232	Membrane-bound chimeric receptor comprising extracellular portion including CD4 fragment - cells expressing receptor can be used for treatment of HIV infection.
19	1258	90.8	232	3 AAB28690	XX
20	1258	90.8	232	4 AAB80897	Claim 3; Fig 25; 134pp; English.
21	1258	90.8	232	4 AAY72915	CC
22	1258	90.8	232	5 AAI15347	This sequence represents the human IgG1 hinge, CH2 and CH3 domains. This sequence is included in the membrane bound proteinaceous chimeric receptor of the invention. Alternatively the transmembrane region of the chimeric receptor contains a portion of the CD7, CD5 or CD34 transmembrane domains. The extracellular portion of the chimeric receptor contains a fragment of CD4 (amino acids 1-394 or 1-200 of the CD4 sequence) which specifically recognises and binds HIV-infected cells, but does not mediate HIV infection. The extracellular domain of the receptor is separated from the cell membrane by 48 or 72 angstroms, or by one or more proteinaceous alpha-helices. The cells expressing the receptor are
23	1258	90.8	232	5 AAE26272	CC
24	1258	90.8	232	7 ADJ65991	AAE26273 Human IgG
25	1258	90.8	232	8 ADU57512	AAE26274 Human bet Abb81490 Human IgG

Abj38647 PCRC pro Ad89055 Plasmid p Add25647 Binding d Adg74307 Fibrobias Adg75210 CH1 delet Abb47590 Fusion pr Aae35214 Human will Aay4154 Protein f Abu07704 Viral coa Aae26273 Human tPA Adj52120 Human IgG

Aab47590 Human IgM Aar91806 Human IgM Adp56389 Human PRO AdB85004 Human ato Ad882579 Human IgG Ab04071 Zcytor 10 Ham47856 Human IgG

CC preferably T cells, B cells, neutrophils, or dendritic cells. The therapeutic cells expressing the chimeric receptor are administered to a mammal to treat HIV infection

XX Sequence 254 AA:

Query Match 100.0%; Score 1385; DB 2; Length 254;
Best Local Similarity 100.0%; Pred. No. 1.4e-96;
Matches 254; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matched sequence:
 1 EPKSCDKHTCPPCPAPELLGGPSVFLPPKPKDTLMISRTEVTICVVVDVSHDEPEVKP
 1 EPKSCDKHTCPPCPAPELLGGPSVFLPPKPKDTLMISRTEVTICVVVDVSHDEPEVKP 60
 61 NWYVDGVEVHNAKTKREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
 61 NWYVDGVEVHNAKTKREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
 61 NWYVDGVEVHNAKTKREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
 121 ISAKGQPREPVYTLLPSRDELTKNOVLTCVKGFPYPSDIAVEWENQOPENYKTP 180
 121 ISAKGQPREPVYTLLPSRDELTKNOVLTCVKGFPYPSDIAVEWENQOPENYKTP 180
 181 PVLDSDGSFPLYSKLTVDSSRQGNVFSCSVMHEALTHYIYOKSLISLSPGLQDETCAE 240
 181 PVLDSDGSFPLYSKLTVDSSRQGNVFSCSVMHEALTHYIYOKSLISLSPGLQDETCAE 240
 241 AQPEDLGWTDP 254
 241 AQPEDLGWTDP 254
 241 AQPEDLGWTDP 254

RESULT 2

ID AAR78667
 XX AAR78667 standard; protein; 254 AA.
 AC AAR78667;
 XX
 DT 11-APR-1996 (first entry)
 DB IgG1 hinge, CH2 and CH3 domains.
 KW Chimeric receptor; CD4; T-cell receptor; HIV; cytolysis;
 KW human immunodeficiency virus; adoptive immunotherapy; IgG1.
 KW Homo sapiens.
 XX OS Homo sapiens.
 PN W09521528-A1.
 XX
 PD 17-AUG-1995.
 XX
 PP 12-JAN-1995; 95WO-US000454.
 XX
 PR 14-FEB-1994; 94US-00195395.
 PR 02-AUG-1994; 94US-00284391.
 XX
 DA (GEHO) GEN HOSPITAL CORP.
 XX
 PT Seed B, Banapour B, Romeo C, Kolanus W;
 PT WPI; 1995-292893/38.
 DR N-PSD; AAR96101.
 XX
 PT Target cytolsis of HIV-infected cells - by chimeric CD4 receptor-bearing
 cells.
 XX
 PS Claim 3; Fig 25; 118pp; English.

CC construction of a chimeric receptor utilised in the targeted cytolsis of
 CC HIV-infected cells. The chimeric receptor comprises the extracellular
 CC domain (pref. amino acids 1-94 or 1-200) of CD4 linked via the CD7
 transmembrane domain to an intracellular portion, e.g. of T-cell receptor
 protein zeta. The IgG1 portion of the chimeric receptor is encoded by the

CC DNA sequence given in AAQ96101

XX Sequence 254 AA:

Query Match 99.6%; Score 1379; DB 2; Length 254;
 Best Local Similarity 99.6%; Pred. No. 4e-96; 1; Indels 0; Gaps 0;
 Matches 253; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Matched sequence:
 1 EPKSCDKHTCPPCPAPELLGGPSVFLPPKPKDTLMISRTEVTICVVVDVSHDEPEVKP
 1 EPKSCDKHTCPPCPAPELLGGPSVFLPPKPKDTLMISRTEVTICVVVDVSHDEPEVKP 60
 61 NWYVDGVEVHNAKTKREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
 61 NWYVDGVEVHNAKTKREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
 61 NWYVDGVEVHNAKTKREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
 121 ISAKGQPREPVYTLLPSRDELTKNOVLTCVKGFPYPSDIAVEWENQOPENYKTP 180
 121 ISAKGQPREPVYTLLPSRDELTKNOVLTCVKGFPYPSDIAVEWENQOPENYKTP 180
 181 PVLDSDGSFPLYSKLTVDSSRQGNVFSCSVMHEALTHYIYOKSLISLSPGLQDETCAE 240
 181 PVLDSDGSFPLYSKLTVDSSRQGNVFSCSVMHEALTHYIYOKSLISLSPGLQDETCAE 240
 241 AQPEDLGWTDP 254
 241 AQPEDLGWTDP 254

RESULT 3

ID ADD13790
 XX ADD13790 standard; protein; 400 AA.
 AC ADD13790;
 XX
 DT 01-JAN-2004 (first entry)
 XX
 DE Plasmid pBS loxP-IgG1/pBS loxP-IgG1delta350/pBS loxP IgG1 deltaCh1 protein.
 XX
 KW library; transfection; humanized monoclonal antibody; antigen;
 KW T cell receptor; circular.
 XX
 OS Synthetic.
 OS Homo sapiens.
 OS Mus sp.
 XX
 PH Key
 PT Location/Qualifiers
 PT Region 1. .97
 PT /note= "Human IgG1 CH3"
 PT Region 98. .112
 PT /note= "Human IgG1 hinge"
 PT Region 113. .222
 PT /note= "human IgG1 CH2"
 PT Region 223. .329
 PT /note= "Human IgG1 CH3"
 PT Region 330. .373
 PT /note= "Murine IgG1 M1"
 PT Region 374. .400
 PT /note= "Murine IgG2 M2"
 XX
 PN EP1298207-A1.
 XX
 PD 02-APR-2003.
 XX
 PF 01-OCT-2001; 2001EP-00123596.
 XX
 PR 01-OCT-2001; 2001EP-00123596.
 XX
 PA (DEKR-) DEUT KREISFORSCHUNGZENTRUM.
 XX
 PI Breitling F, Moldenhauer G, Poustka A, Kuehlwein T;
 XX
 DR WPI; 2003-383833/37.

XX
PT preparing library of protein-producing eukaryotic cells, useful for
PT producing humanized high-affinity antibodies, comprises introducing
PT specific recombination signals into chromosomal gene loci and integrating
PT a variety of DNA sequences.

XX
PS Example 19; Fig 16; 75pp; German.

XX
CC This invention describes a novel method of preparing a library of protein
CC -producing eukaryotic cells comprising (a) introducing specific
CC recombination signals into one or two chromosomal gene loci, (b)
CC expanding at least one of the modified cells, (c) Transferring many
CC different DNA sequences, each flanked by recombination signals, into the
CC expanded cells and (d) Integrating the DNA sequences into the gene loci
CC recombinase. The resulting cells express different proteins, each from an
CC integrated DNA sequence and the proteins are bound to the cell surface.
CC The method is particularly used to produce libraries of humanized
CC monoclonal antibodies, for selection of those with affinity for
CC particular antigens and useful for diagnostic or therapeutic use.
CC Libraries of T cell receptors may also be prepared. The method produces
CC libraries of high diversity, provides easy, quick and automatable
CC selection from a large number of proteins, allows relatively simple
CC alteration of the expressed gene (e.g. fusion to other protein-coding
CC sequences), is suitable for large scale protein production and allows
CC simple verification and characterization of selected cell lines. The
CC method does not require incorporation of a resistance marker. This
CC sequence represents the construct PBS loxP-19G1/pBS loxP-IgGdelta350/pBS
XX loxPigGdelta1 described in the disclosure of the invention.

SQ sequence 400 AA;

Query Match 98.1%; Score 1358; DB 7; Length 400;
Best Local Similarity 98.8%; Pred. No. 2.7e-94; AC 1;
Matches 251; Conservative 1; Mismatches 0; Indels 2; Gaps 1;
Qy 1 EPKSCDKHTCPCPAPELLGGSVPLFPPKDTLMSRTPETCVWVVDPSHEDPVKP 60
Db 98 EPKSCDKHTCPCPAPELLGGSVPLFPPKDTLMSRTPETCVWVVDPSHEDPVKP 157
Qy 61 NYVUDGVVEHNAKTKTKEPEQVNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
Db 158 NYVUDGVVEHNAKTKTKEPEQVNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 217
Qy 121 ISAKAKGQPREPOVYTLPSSRDELTKNQVSLTCLVKGPYPSDIAVEWNSNGOPENNYKTP 180
Db 218 ISAKAKGQPREPOVYTLPSSRDELTKNQVSLTCLVKGPYPSDIAVEWNSNGOPENNYKTP 277
Qy 181 PVLDSGDSPPFLPSLQTLDKSRMKGQVNFTCSWHEALHNHYTQKSLSLSPGKGQLQDETC 238
Db 278 PVLDSGDSPPFLPSLQTLDKSRMKGQVNFTCSWHEALHNHYTQKSLSLSPGKGQLQDETC 337
Qy 239 AERQDGDELGLWNT 252
Db 338 AERQDGDELGLWNT 351

RESULT 4

ID ADR66914
ID ADR66914 standard; Protein: 544 AA.

XX
AC ADR66914;
XX
DT 02-DEC-2004 (first entry)

DB Human prostatic carcinoma derived DNA SEQ ID 212 #4.

XX
KW human; cytostatic; diagnosis; prostatic cancer;
KW differential expression analysis.

OS Homo sapiens.

PN WO2004076614-A2.

XX
10-SEP-2004.
XX
22-FEB-2004; 2004WO-DE000433.
XX
27-FEB-2003; 2003DE-01005985.
PR 14-MAY-2003; 2003DE-01022134.

XX
PA (HINZI/ HINZMANN B.
PA (DAHL/ DAHL E.
PA (ROSE/ ROSENTHAL A.
PA (HERM/ HERMANN K.
PA (PILA/ PILARSKY C.
XX
PI Hinzmann B., Dahl E., Rosenthal A., Hermann K., Pilarsky C., Specht T;
PI Schmitt A., Beckmann G., Bruemmendorf T., Kinnemann H., Roepcke S;
PI Xinhong L., Staub E;
XX
DR WPI; 2004-653386/63.

XX
New nucleic acids, and encoded proteins, from prostatic cancer tissue,
PT useful for diagnosis, treatment and in screening for specific binding
PT agents,

XX
Claim 2; Page 1567; 1607pp; German.
CC This invention describes novel cytotoxic polynucleotide and polypeptide
CC sequences which can be used in a method for diagnosing prostatic cancer
CC or the risk of developing prostatic cancer. Diagnosis is based on
CC determining over transcription or over expression of the sequences in
CC prostatic tissue. Screening for inhibitors of the sequences or detection
CC substances involves a binding assay, any compounds that bind are
CC selected, optionally after deconvolution of mixtures. Detection of a
CC predetermined minimum level of the reporter indicates the presence of
CC tumour cells. Inhibitors can be chosen from antisense oligonucleotides and/or
CC short-interfering RNA or ribozymes; an organic molecule of molecular
CC weight below 5000, preferably 300, that binds to the polypeptide; an
CC aptamer against the polypeptide; a (monoclonal) antibody (Ab) against the
CC polypeptide, preferably humanised or human; an anti-idiotype, non-human
(monoclonal) antibody directed against Ab or any of the above derivatised
CC with a reporter group, cell toxin, immunostimulatory molecules and/or
CC radioisotope. The polynucleotides are identified in human prostatic
CC cancer by differential expression analysis, using DNA microarrays,
CC between normal and tumorous tissues, with (over)expression being detected
CC by quantitative PCR. Analysis of Prostatic cancer samples showed that
CD24 was upregulated in many of them. Sections of tissue, isolated from
CC prostatic cancer patients, or subjects at risk, were incubated
CC sequentially with anti-human CD4 murine monoclonal antibodies;
CC biotinylated second antibody; streptavidin-conjugated horseradish
CC peroxidase and then diaminobenzidine as colour former (brown). The
CC samples were counterstained with hemalum (blue). Malignant cells stained
CC strongly but non-malignant cells only weakly. In 15 of 63 samples of
CC adenocarcinoma, membrane and cytoplasmic staining was very strong, and
CC lymph node metastases were also stained. ADR66954 represent the
CC polynucleotide and polypeptide sequences used in the method of the
invention.

SQ Sequence 544 AA;

Query Match 97.9%; Score 1356; DB 8; Length 544;
Best Local Similarity 98.8%; Pred. No. 5.4e-94; AC 1;
Matches 249; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

XX
Qy 1 EPKSCDKHTCPCPAPELLGGSVPLFPPKDTLMSRTPETCVWVVDPSHEDPVKP 60
Db 244 EPKSCDKHTCPCPAPELLGGSVPLFPPKDTLMSRTPETCVWVVDPSHEDPVKP 303

XX
Qy 61 NYVUDGVVEHNAKTKTKEPEQVNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 120
Db 304 NYVUDGVVEHNAKTKTKEPEQVNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIKT 363

XX
Qy 121 ISAKAKGQPREPOVYTLPSSRDELTKNQVSLTCLVKGPYPSDIAVEWNSNGOPENNYKTP 180

us8-60-879

Db	364	ISKAKGQPREPVYTIPPSRDELTKNQVSLTCLVKGVFYPDI	423
Qy	181	PVLDSDOSPFVLYSKLTVDKSRMVGQVMVFSSVWMLAHNHYTQKSLSLSPGLQDTC	240
Db	424	PVLDSDGSFFLYSKLTVDKSRMVGQVMVFSCVWMLAHNHYTQKSLSLSPELQEECAE	483
Qy	241	AQDGELDGIVTT	252
Db	484	AQDGELDGIVTT	495

RESULT 5
ADR66016

ID ADR66016 standard; protein; 544 AA.
XX
~~~~~.

ACC ALLEGHENY, XX DT XX 02-DEC-2004 (first entry) X#1

DE Human prostatic carcinoma derived protein seq 15 222 "..."  
XX  
kw human: cytostatic; diagnosis; Prostatic cancer;

...  
KW differential expression analysis.  
XX

OS Homo sapiens.  
XX  
PN WO2004076614-A2.

XX  
PD  
vv  
10-SEP-2004.

XX  
XX  
PF  
22-FEB-2004; 2004WO-DE000433.  
XX

PR  
27-FEB-2003; 2003DE-01009393.  
PR  
14-MAY-2003; 2003DE-01022134.  
XX

HINZMANN B.  
DAHL E.

PA (ROSE) ROSENTHAL A.  
PA (HERM) HERMANN K.  
PA (PILA) PILARSKY C.

XX  
Hinzmann B., Dahl E., Rosenthal A., Hermann K., Pilarski  
PI  
Schmitt A., Beckmann G., Bruemendorf T., Kinnemann H.,  
Dr.

XX  
KXinzhong L, Staub E;  
PI Schmutz P, Staub E;

DR WPI; 2004-653386/63.  
XX  
PT New nucleic acids, and encoded proteins, from prostatic

... useful for diagnosis, treatment and in screening for sp<sup>+</sup> PT agents.

XX  
PS  
XX  
Claim 2; Page 607; 1607pp; German.

This invention describes novel cytostatic polynucleotidic sequences which can be used in a method for diagnosis of the risk of developing prostatic cancer. Diagnosis is

CC  
CC or the loss of overexpression of the CC  
CC determining over transcription or over expression of the sequence CC  
CC prostatic tissue. Screening for inhibitors of the sequence CC  
CC

CC substances involves a binding assay, any selected, optionally after deconvolution of mixtures. The predetermined minimum level of the reporter indicates t

**CC** tumour cells. Inhibitors can be chosen from antisense (**CC**) short-interfering RNA or ribozymes; an organic molecule (**CC**) that binds to the p

CC CC weight below 5000, preferably 3000, monoclonal aptamer against the polypeptide; a (monoclonal) antibody polypeptide, preferably humanised or human; an anti-id-

(monoclonal) antibody directed against Ab or any of the CC with a reporter group, cell toxin, immunostimulatory CC *substances*. The oligonucleotides are identified in hu-

CC  
CC  
by quantitative PCR. Analysis of prostate cancer samples  
CD24 was upregulated in many of them. Sections of tiss

XX New 1995 cDNA, useful for treating osteoporosis, neurological diseases, Alzheimer's disease, Parkinson's disease and various cancers.

PT /note= "human IgG1 hinge"

PT Region .

PT Region 13. .222

PT Region /note= "human IgG1 CH2"

PT Region 223. .330

PT Region /note= "human IgG1 CH3"

PT Region 331. .374

PT Region /note= "murine IgG1 M1"

PT Region 375. .401

PT Region /note= "murine IgG1 M2"

XX DN EP1298207-A1.

XX PD 02-APR-2003.

XX PR 01-OCT-2001; 2001EP-00123596.

XX PR 01-OCT-2001; 2001EP-00123596.

XX PA (DEKR-) DEUT KREBSFORSCHUNGSZENTRUM.

XX PI Breitling P, Moldenhauer G, Poustka A, Kuehlwein T;

XX DR WPI: 2003-383833/37.

XX DR N-PSDB; ADD13780.

XX PT Preparing library of protein-producing eukaryotic cells, useful for producing humanized high-affinity antibodies, comprises introducing specific recombination signals into chromosomal gene loci and integrating a variety of DNA sequences.

XX PS Example 1; Fig 12B; 75pp; German.

CC This invention describes a novel method of preparing a library of protein-producing eukaryotic cells comprising (a) introducing specific recombination signals into one or two chromosomal gene loci, (b) expanding at least one of the modified cells, (c) Transfecting many different DNA sequences, each flanked by recombination signals, into the expanded cells and (d) Integrating the DNA sequences into the gene loci on the basis of the recombination signals and the appropriate recombinase. The resulting cells express different proteins, each from an integrated DNA sequence and the proteins are bound to the cell surface. The method is particularly used to produce libraries of humanized monoclonal antibodies, for selection of those with affinity for particular antigens and useful for diagnostic or therapeutic use.

CC Libraries of T cell receptors may also be prepared. The method produces libraries of high diversity; provides easy, quick and automatable selection from a large number of proteins, allows relatively simple alteration of the expressed gene (e.g. fusion to other protein-coding sequences), is suitable for large scale protein production and allows simple verification and characterization of selected cell lines. The method does not require incorporation of a resistance marker. This sequence represents the construct MbIGG1/ PBS MbIGG1Delta250 described in the disclosure of the invention.

XX SQ Sequence 401 AA;

Query Match 97.1%; Score 1345.5; DB 7; Length 401;

Best Local Similarity 98.4%; Pred. No. 2.3e-93; 0; Mismatches 1; Indels 3; Gaps 2;

Matches 251; Conservative

XX ID ADD13781 Standard; protein; 401 AA.

XX AC ADD13781;

XX DT 01-JAN-2004 (first entry)

XX DE Plasmid PBS MbIGG1M/ PBS MbIGG1Delta250 protein.

XX KW library; transfection; humanized monoclonal antibody; antigen; T cell receptor; circular.

OS Synthetic.

OS Homo sapiens.

OS Mus sp.

FH Key Location/Qualifiers

PT Region 1. .97 /note= "human IgG1 CH1"

---

XX SQ Sequence 539 AA;

Query Match 97.5%; Score 1350; DB 8; Length 539;

Best Local Similarity 98.0%; Pred. No. 1.5e-93; 4; Mismatches 1; Indels 0; Gaps 0;

Matches 247; Conservative

XX OY 1 EPKSCDKTHCPCPAPELLGGPSVLPFPKPKDTLMISRPEVTICWVDVSHEDPEVKF 60

XX Db 239 EPKSCDKTHCPCPAPELLGGPSVLPFPKPKDTLMISRPEVTICWVDVSHEDPEVKF 298

OY 61 NWYDGVEVHNAKTKPREQINSTYRVSVLTLHQDWLNGKEYKCKVSNKALPAIEKT 120

Db 299 NWYDGVEVHNAKTKPREQINSTYRVSVLTLHQDWLNGKEYKCKVSNKALPAIEKT 358

OY 121 ISKAKGSPREPQYVTPSRSDELTKNOVSILCIVKGYPSPDAVENEENGOPENNKKTP 180

Db 359 ISKAKGSPREPQYVTPSRSDELTKNOVSILCIVKGYPSPDAVENEENGOPENNKKTP 418

OY 181 PVLDSDGSFRFLISKLTDSRMRQGNPFCSTVMEALHNHYTQKSLSLSPGOLDTCAE 240

Db 419 PVLDSDGSFFLYSKLTVDKSRWQGNPFCSTVMEALHNHYTQKSLSLSPGOLDTCAE 478

OY 241 AQDGEGLDGLWT 252

Db 479 AQDGEGLDGLWT 490

RESULT 7

ADD13781

XX SQ Sequence 401 AA;

Query Match 97.1%; Score 1345.5; DB 7; Length 401;

Best Local Similarity 98.4%; Pred. No. 2.3e-93; 0; Mismatches 1; Indels 3; Gaps 2;

Matches 251; Conservative

XX OY 1 EPKSCDKTHCPCPAPELLGGPSVLPFPKPKDTLMISRPEVTICWVDVSHEDPEVKF 60

XX Db 98 EPKSCDKTHCPCPAPELLGGPSVLPFPKPKDTLMISRPEVTICWVDVSHEDPEVKF 157

OY 61 NWYDGVEVHNAKTKPREQINSTYRVSVLTLHQDWLNGKEYKCKVSNKALPAIEKT 120

Db 158 NWYDGVEVHNAKTKPREQINSTYRVSVLTLHQDWLNGKEYKCKVSNKALPAIEKT 217

OY 121 ISKAKGSPREPQYVTPSRSDELTKNOVSILCIVKGYPSPDAVENEENGOPENNKKTP 180

Db 218 ISKAKGSPREPQYVTPSRSDELTKNOVSILCIVKGYPSPDAVENEENGOPENNKKTP 277

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----|----|-----|-----------------------------------------------------------|-----|
| OY                    | 181                                                                                                                                                                                                                                                                                                                                                                                                                                           | PVLDSDGSFFLYSKLTVDKSRMKGQGVFSCSVMEHALHNHTQKSLSLSP--GLDDET | 237 | Db | 84  | NWYDGVEVHNAKITKPREQYNSTYRVSVLTVLHQDWLNGKEYKCRVSNKALAPIET  | 143 |
| Db                    | 278                                                                                                                                                                                                                                                                                                                                                                                                                                           | PVLDSDGSFFLYSKLTVDKSRMKGQGVFSCSVMEHALHNHTQKSLSLSPGKGLDDET | 337 | OY | 121 | ISRAKGOREPQYTTPSRSRDLTKNQVSUTLKVGPYPSDIAVENESNGOPENNKKTP  | 180 |
| OY                    | 238                                                                                                                                                                                                                                                                                                                                                                                                                                           | CREAQDQBLD3WTT 252                                        |     | Db | 144 | ISRAKGOREPQYTTPSRSRDLTKNQVSUTLKVGPYPSDIAVENESNGOPENNKKTP  | 203 |
| Db                    | 338                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRAAQDQBLD3WTT 352                                        |     | OY | 181 | PVLDSDGSFFLYSKLTVDKSRMKGQGVFSCSVMEHALHNHTQKSLSLSPGLQDBTC  | 240 |
| RESULT                | 8                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           |     | Db | 204 | PVLDSDGSFFLYSKLTVDKSRMKGQGVFSCSVMEHALHNHTQKSLSLSPGKGLDDET | 263 |
| ID                    | AAB28692                                                                                                                                                                                                                                                                                                                                                                                                                                      | standard; protein; 441 AA.                                |     | OY | 241 | AQD 243                                                   |     |
| XX                    | AAB28692;                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |     | Db | 264 | VQE 266                                                   |     |
| AC                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| DE                    | Fc-huAGP-1 (95-281) fusion protein.                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| DT                    | 14-FEB-2001 (first entry)                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| KW                    | Human; AGP-1; type II transmembrane protein; cytostatic; antiviral; antiinflammatory; hepatotropic; antiarteriosclerotic; anti-HIV; HIV; human immunodeficiency virus; apoptosis; proliferative disorder; cancer; hepatitis; acquired immunodeficiency syndrome; AIDS; autoimmune disorder; transplant rejection; cardiovascular disease; arteriosclerosis; FC-huAGP-1; fusion protein.                                                       |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| KW                    | Homo sapiens.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| OS                    | WO200063253-A1.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PD                    | 26-OCT-2000.                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PP                    | 2000MO-US008004.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PR                    | 16-APR-1999; 99US-00293245.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PA                    | (AMGE-) AMGEN INC.                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PT                    | Hsu H, Meng S;                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| DR                    | WPI; 2000-665240/64.                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| DR                    | N-PSDB; AAC7832.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PT                    | Fusion protein of AGP-1 protein and an FC region, used to treat proliferative disorders, immune disorders, and virally-induced disorders.                                                                                                                                                                                                                                                                                                     |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| PS                    | disclosure; Fig 3; 93pp; English.                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           |     |    |     |                                                           |     |
| XX                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |    |     |                                                           |     |
| CC                    | The present sequence is an AGP-1 fusion protein. AGP-1 is a type II transmembrane protein. The fusion proteins comprise an FC immunoglobulin region fused to the N-terminal portion of the AGP-1 protein. The fusion proteins can be used to induce apoptosis in a tissue, and to treat proliferative disorders, immune disorders, or virally-induced disorders.                                                                              |                                                           |     |    |     |                                                           |     |
| CC                    | The proliferative disorders include cancers, such as breast, prostate, lung or colon cancer. The viral infections include hepatitis, and acquired immunodeficiency syndrome (AIDS), and the immune disorders may be autoimmune disorders or transplant rejection. Cardiovascular diseases such as arteriosclerosis may also be treated. The AGP-1 containing fusion proteins have increased biological activity compared to the soluble AGP-1 |                                                           |     |    |     |                                                           |     |
| CC                    | proteins used in prior art therapies                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |     |    |     |                                                           |     |
| SQ                    | sequence 441 AA;                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |     |    |     |                                                           |     |
| Query Match           | 91.8%; Score 1271; DB 3; Length 441;                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |     |    |     |                                                           |     |
| Best Local Similarity | 96.3%; Pred. No. 1.1e-87;                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |     |    |     |                                                           |     |
| Matches               | 234; Conservative 3; Mismatches 6; Indels 0; Gaps 0;                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |     |    |     |                                                           |     |
| OY                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                             | EPKSCDKTHCPCPAPBLGGPSVLFPPKPKTLMISRTPEVICVVWDVSHDPEVK     | 60  | Db | 94  | NWYDGVEVHNAKITKPREQYNSTYRVSVLTVLHQDWLNGKEYKCRVSNKALAPIET  | 143 |
| Db                    | 24                                                                                                                                                                                                                                                                                                                                                                                                                                            | EPKSCDKTHCPCPAPBLGGPSVLFPPKPKTLMISRTPEVICVVWDVSHDPEVK     | 83  | OY | 121 | ISRAKGOREPQYTTPSRSRDLTKNQVSUTLKVGPYPSDIAVENESNGOPENNKKTP  | 180 |
| OY                    | 61                                                                                                                                                                                                                                                                                                                                                                                                                                            | NWYDGVEVHNAKITKPREQYNSTYRVSVLTVLHQDWLNGKEYKCRVSNKALAPIET  | 120 | Db | 144 | ISRAKGOREPQYTTPSRSRDLTKNQVSUTLKVGPYPSDIAVENESNGOPENNKKTP  | 203 |
| SQ                    | Sequence 448 AA;                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |     |    |     |                                                           |     |
| Query Match           | 91.4%; Score 1266; DB 3; Length 448;                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |     |    |     |                                                           |     |
| Best Local Similarity | 94.7%; Pred. No. 2.7e-87;                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |     |    |     |                                                           |     |
| Matches               | 233; Conservative 4; Mismatches 9; Indels 0; Gaps 0;                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |     |    |     |                                                           |     |

QY 1 EPKSCDKHTCPCPAPBLLGPSVLPPIKKDTLMSRTPBTCVWDVYSHEDPEVKP 60  
 Db 24 EPKSCDKHTCPCPAPBLLGPSVLPPIKKDTLMSRTPBTCVWDVYSHEDPEVKP 83  
 QY 61 NMYVDGVEVNAKTKPKEEQNSTYRVWSVLTIVLHQDWLNGKEYKCKVSKNKLAPTEKT 120  
 Db 84 NMYVDGVEVNAKTKPKEEQNSTYRVWSVLTIVLHQDWLNGKEYKCKVSKNKLAPTEKT 143  
 QY 121 ISKAKGQPREPQVTLPSPRSRDLTQNSLTCUWKGVYPSDIAVEMESNGOPENNYKTP 180  
 Db 144 ISKAKGQPREPQVTLPSPRSRDLTQNSLTCUWKGVYPSDIAVEMESNGOPENNYKTP 203  
 QY 181 PVLDSQCSPPFLYSKLTUDKSRSWQGNIFSCSVNHEALNRHYTOKSLSLSPGTQFQPTIST 203  
 Db 204 PVLDSQCSPPFLYSKLTUDKSRSWQGNIFSCSVNHEALNRHYTOKSLSLSPGTQFQPTIST 263  
 QY 241 AQDGEL 246  
 Db 264 VPKQL 269

RESULT 10

ID ADR1059  
 ID ADR10259 standard; protein: 577 AA.  
 AC ADR10259;  
 XX DT 04-NOV-2004 (first entry)  
 DB Human protein useful for treating neurological disease seq 3765.  
 KW human; oligo-capping method; diagnostic marker; gene therapy;  
 KW osteoporosis; neurological disease; Alzheimer's disease;  
 KW Parkinson's disease; dementia; short memory; cancer;  
 KW sense or motor function; emotional reaction; fear response; panic;  
 KW osteopathic; neuroprotective; nootropic; antiparkinsonian; cytostatic;  
 KW tranquiliser.  
 OS Homo sapiens.  
 XX PN EP1447413-A2.  
 XX PD 18-AUG-2004.  
 XX PP 12-FEB-2004; 2004EP-00003145.  
 XX PR 14-FEB-2003; 2003JP-00102207.  
 PR 09-MAY-2003; 2003JP-00131452.  
 XX PA (REAS-) RBS ASSOC BIOTECHNOLOGY.  
 PI Isogai T, Yamamoto J, Nishikawa T, Isono Y, Sugiyama T, Otsuki T;  
 PI Wakamatsu A, Ishii S, Nagai K, Irie R;  
 XX DR WPI: 2004-583265/57.  
 DR N-PSDB; ADR08303.

XX PT New 1995 cDNA, useful for treating osteoporosis, neurological diseases, Alzheimer's disease, Parkinson's disease, dementia and various cancers.

PS Claim 1; SEQ ID NO 3765; 2686pp; English.

CC This invention relates to novel, isolated full length human cDNA molecules and the encoded proteins thereof. Specifically, it refers to cDNA clones obtained by an oligo-capping method, where none of these clones are identical to any known human mRNAs. The present invention describes an immunoassay to identify agonists and antagonists, as well as antibodies, antisense molecules and siRNA that can all be used to bind to and modulate expression of the cDNA molecules. As such, these molecules are useful for diagnostic markers or therapeutic targets for the various diseases or morbid states. In particular, they are useful in gene therapy for treating osteoporosis, neurological disease, Alzheimer's disease, Parkinson's disease, dementia, short memory and various cancers,

CC as well as for maintaining equilibrium of sense or motor function, and for treating emotional reaction, fear response and panic. Accordingly, they exhibit osteoprotective, neuroprotective, nootropic, antiparkinsonian, cytostatic and tranquiliser activities. This polypeptide is a protein encoded by a full length human cDNA sequence of the invention. Note: This sequence is not given in the sequence listing of the specification but can be obtained on CD-ROM from the European Patent Office, Vienna Sub-office.

SQ Sequence 577 AA;

Query Machh Best Local Similarity 91.3%; Score 1265; DB 8; Length 577; Matches 231; Conservative 11; Mismatches 0; Indels 0; Gaps 0;

QY 1 EPKSCDKHTCPCPAPBLLGPSVLPPIKKDTLMSRTPBTCVWDVYSHEDPEVKP 60  
 Db 337 KMYVDGVEVNAKTKPKEEQNSTYRVWSVLTIVLHQDWLNGKEYKCKVSKNKLAPTEKT 396  
 QY 121 ISKAKGQPREPQVTLPSPRSRDLTQNSLTCUWKGVYPSDIAVEMESNGOPENNYKTP 180  
 Db 397 ISKAKGQPREPQVTLPSPRSRDLTQNSLTCUWKGVYPSDIAVEMESNGOPENNYKTP 456  
 QY 181 PVLDSQCSPPFLYSKLTUDKSRSWQGNIFSCSVNHEALNRHYTOKSLSLSPGTQFQPTIST 240  
 Db 457 PVLDSQCSPPFLYSKLTUDKSRSWQGNIFSCSVNHEALNRHYTOKSLSLSPGTQFQPTIST 516

RESULT 11

ID ADM9793  
 ID ADM9793 standard; protein: 502 AA.  
 AC ADM9793;  
 XX DT 01-JUL-2004 (first entry)  
 XX DE CD1d-IgG-avidin complex IgG1 fragment SEQ ID NO: 16.  
 XX KW CD1d complex; cytostatic; antiinflammatory; cancer; autoimmune disease; inflammatory disease; immunosuppressive; antimicrobial; neuroprotective; antidiabetic; antiarthritic; antirheumatic; ophthalmological; gastrointestinal; nephrotropic; dermatological; hepatotropic; KW beta2-microglobulin.  
 XX OS Unidentified.  
 PN WO2004029206-A2.  
 XX DD 08-APR-2004.  
 PP 26-SEP-2003; 2003WO-US0302318.  
 PR 27-SEP-2002; 2002EP-0040583B.  
 XX PA (VACC-) VACCINEX INC.  
 PA (ROBB-) ROBERT B.  
 PA (DOND-) DONDA A.  
 PA (CESS-) CESSON V.  
 PA (MACH-) MACH J.  
 XX PI Robert B., Donda A., Cesson V., Mach J., Zauderer M,  
 DR WPI: 2004-316095/29.  
 DR N-PSDB; ADM97492.

PT New compound comprising CD1d complexes and an antibody specific for a  
 PT cell surface marker, useful for preventing or treating tumors and  
 PT autoimmune/inflammatory or infectious diseases, e.g. multiple sclerosis,  
 XX diabetes or psoriasis.

PS Example 4; Page 78; 152pp; English.

XX The present invention relates to a compound comprising one or more CD1d  
 CC complexes and an antibody or its fragment specific for a cell surface  
 CC marker. The CD1d complexes comprise a CD1d and a beta2-microglobulin  
 molecule, and are linked to the antibody or its fragment. The composition  
 CC and methods are useful for preventing or treating tumours and  
 auto-immune/inflammatory or infectious diseases, such as multiple  
 CC scleroses, type I diabetes, ankylosing spondilitis, acute anterior  
 CC uveitis, atrophic gastritis, Goodpasture's syndrome, Grave's disease,  
 CC Hashimoto's thyroiditis, myasthenia gravis, psoriasis, psoriatic  
 CC arthritis, rheumatoid arthritis, systemic lupus erythematosus, systemic  
 CC sclerosis, pemphigus vulgaris, pernicious anemia, primary biliary  
 CC cirrhosis, ulcerative colitis or autoimmune hepatitis. The present  
 sequence is a polypeptide used in the exemplification of the invention.

XX

SQ Sequence 502 AA;

Query Match 91.2%; Score 1263; DB 8; Length 502;  
 Best Local Similarity 92.2%; Pred. No. 5.3e-87; Indels 4; Gaps 1;  
 Matches 237; Conservative 2; Mismatches 14; Indels 4; Gaps 1;

Qy 1 EPKSCDKTHTCPPCPAPELLGGSVFLPPKPKDTLMSRTPETCVWVDYSHEDPEVKF 60  
 Db 123 EPKSCDKTHTCPPCPAPELLGGSVFLPPKPKDTLMSRTPETCVWVDYSHEDPEVKF 182

Qy 61 NWYDGVVEVNAKTKPREEQYNSTYRVVSLTVLHQDWLNGKEYKCKVSKNKAPEKT 120  
 Db 183 NWYDGVVEVNAKTKPREEQYNSTYRVVSLTVLHQDWLNGKEYKCKVSKNKAPEKT 242

Qy 121 ISAKGQPRPQQVYLPPSDRLTQNVSITCLVKGFPYSDIAVENEWSNGOPENNYKTP 180  
 Db 243 ISAKGQPRPQQVYLPPSDRLTQNVSITCLVKGFPYSDIAVENEWSNGOPENNYKTP 302

Qy 181 PVLDSDGSFFLYSKLTVDKSRWQGNVFCSVMHEALHNHYTQKSLSLSPGKAPTSSTK 237  
 Db 303 PVLDSDGSFFLYSKLTVDKSRWQGNVFCSVMHEALHNHYTQKSLSLSPGKAPTSSTK 362

Qy 238 --CAEAQDSEHLDGLWTTD 253  
 Db 363 GGGSAARKCSLTGKWTND 379

RESULT 12

AAB81972 AAB81972 standard; protein; 581 AA.

ID AAB81972 standard; protein; 581 AA.

XX

AC AAB81972;

XX

CC

AC 03-JUL-2001 (first entry)

DB Ganglioside GD2 specific antibody related protein SEQ ID NO: 31.

XX

KW Ganglioside; GD2; complementation determining region; CDR; antibody;

KW mouse; cancer.

XX

OS Synthetic.

XX

PN WO20123573-A1.

PD 05-APR-2001.

XX

PF 29-SEP-2000; 2000WO-JP006773.

XX

PR 30-SEP-1999; 99JP-00278391.

XX

PR 06-APR-2000; 2000JP-00105088.

PA (KYOW ) KYOWA HAKKO KOGYO KK.

XX

PT Hanai N, Shitara K, Nakamura K, Niwa R;

XX

PI Hanai N, Shitara K, Nakamura K, Niwa R;

XX

DR WPI: 2001-266163/27.

XX

PT Human type complementation-determining domain transplanted antibody and  
 PT derivatives against ganglioside GD2, useful in diagnosis and therapy of  
 XX e.g. tumors, has low antigenicity, little side effects but potent  
 activity in cancer.

PS Example 3; Page 111-114; 123pp; Japanese.

XX The present invention describes an antibody, which can react specifically  
 CC with ganglioside GD2, and is transplanted with a human type  
 CC complementation-determining domain (CDR), or its fragments. The antibody  
 CC and its derivatives are useful in diagnosis and therapy of tumours,  
 CC particularly cancer diagnosis. The present sequence is a protein used in  
 CC the exemplification of the invention

SQ Sequence 581 AA;

Query Match 91.0%; Score 1260; DB 4; Length 581;  
 Best Local Similarity 92.5%; Pred. No. 1.1e-86; Indels 12; Gaps 1;  
 Matches 235; Conservative 2; Mismatches 5; Indels 12; Gaps 1;

Qy 1 EPKSCDKTHTCPPCPAPELLGGSVFLPPKPKDTLMSRTPETCVWVDYSHEDPEVKF 60  
 Db 217 EPKSCDKTHTCPPCPAPELLGGSVFLPPKPKDTLMSRTPETCVWVDYSHEDPEVKF 276

Qy 61 NWYDGVVEVNAKTKPREEQYNSTYRVVSLTVLHQDWLNGKEYKCKVSKNKAPEKT 120  
 Db 277 NWYDGVVEVNAKTKPREEQYNSTYRVVSLTVLHQDWLNGKEYKCKVSKNKAPEKT 336

Qy 121 ISAKGQPRPQQVYLPPSDRLTQNVSITCLVKGFPYSDIAVENEWSNGOPENNYKTP 180  
 Db 337 ISAKGQPRPQQVYLPPSDRLTQNVSITCLVKGFPYSDIAVENEWSNGOPENNYKTP 396

Qy 181 PVLDSDGSFFLYSKLTVDKSRWQGNVFCSVMHEALHNHYTQKSLSLSPGKAPTSSTK 231  
 Db 397 PVLDSDGSFFLYSKLTVDKSRWQGNVFCSVMHEALHNHYTQKSLSLSPGKAPTSSTK 456

Qy 232 --LQDRTCAEAQ 242  
 Db 457 KTYOLQLEHLLDLQ 470



CC ganglioside GM2. The antibody may be a monoclonal antibody or its  
 CC fragments. The antibody is combined with a radioactive isotope, protein  
 CC or small drug in the treatment and diagnosis of cancer  
 XX  
 SQ Sequence 583 AA;

Query Match 91.0%; Score 1260; DB 4; Length 583;  
 Best Local Similarity 92.5%; Pred. No. 1.1e-06;  
 Matches 235; Conservative 2; Mismatches 5; Indels 12; Gaps 1;  
 QY |||||EPKSCDKHTCPGCPAPELGGPSVFLPPPKERKDYLMSRTEVTCVVVVDYSHEDPEVKF 60  
 Db 219 EPKSCDKHTCPGCPAPELGGPSVFLPPPKERKDYLMSRTEVTCVVVVDYSHEDPEVKP 278  
 QY |||||61 NYVYDGVEVHNAKTKREEQYNTSYRVVSLTVLHQDWLNGEKYCKVSNKALPAPTEKT 120  
 Db 279 NYVYDGVEVHNAKTKREEQYNTSYRVVSLTVLHQDWLNGEKYCKVSNKALPAPTEKT 338  
 QY 121 ISKAKGSPREPOQYTTPLPSRLDKTQVSLTCLUKGKPYPSDIAVWESNGOPBNYKTP 180  
 Db 339 ISKAKGSPREPOQYTTPLPSRLDKTQVSLTCLUKGKPYPSDIAVWESNGOPBNYKTP 398  
 QY 181 PVLDSDGSFFLISKLTVDKSRVQGNFGNFSCSVMEALHNHTQKSISLSPG----- 231  
 Db 399 PVLDSDGSFFLISKLTVDKSRVQGNFGNFSCSVMEALHNHTQKSISLSPGAKPSSTK 458  
 QY 232 ---LQDETCAAQ 242  
 Db 459 KIQLOLQEHLLLDLQ 472

Search completed: March 7, 2005, 07:13:03  
 Job time : 109.895 secs